

05-GF-113
(6630)

we energies



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Hand Delivered

May 1, 2003

Ms. Lynda L. Dorr
Secretary to the Commission
Public Service Commission of Wisconsin
P.O. Box 7854
Madison, WI 53707-7854

Re: WI Admin. Code PSC 113.0607

Dear Ms. Dorr:

Enclosed for filing from Wisconsin Electric Power Company and Wisconsin Gas Company, doing business as We Energies, is the Report of the Generator Unit Performance. The Generator Unit Performance Data is being filed pursuant to the requirement in WI Admin. Code PSC 113.0607 (2)(b) 6. Also enclosed for filing is the data and updates to the 113.0607 Preventive Maintenance Plan.

Attachment A is the Bi-Annual Maintenance plan update for the Distribution System. Attachment B is Distribution System Inspection and Maintenance Programs activity for 2001 and 2002. In compliance with the Preventive Maintenance Plan for Point Beach, they continue to implement the programs described in the initial plan. They also continue to follow all applicable NRC regulations. The only update to the Fossil Generation plan is the retirement of the Port Washington Unit 4 January, 2003.

If you have any questions on this report, please contact Paul Farron at 414-221-3958.

Sincerely,

Roman A. Draba
Roman A. Draba (DT)
Vice President
State Regulatory Affairs

attachments

cc: Scot Cullen/PSC

MFC
EBC

SECTION B -- GENERATOR UNIT PERFORMANCE DATA

PSC 113.0607 (2)(b) 6

Data for the period of January 1, 2002 through December 31, 2002

GENERATOR UNIT	Technology Type and Primary Fuel	Net Dependable Capacity - Summer		Net Dependable Capacity - Winter		Net Capacity Factor	Forced Outage Factor	Planned Outage Factor	'BTU/kWh)	Net Generation (MWH)	Fuel Consumed (Tons-coal)	Fuel Consumed (million CF gas)	Fuel Consumed (barrels of oil)
		Net	Dependable Capacity - Summer	Net	Dependable Capacity - Winter								
Port Washington Unit 1	Coal	65	65	65	65	33.0	4.6	0.0	14,452	199,203	110,119	0	0
Port Washington Unit 2	Coal	80	80	80	80	15.8	4.9	32.5	14,459	111,349	61,582	0	0
Port Washington Unit 3	Coal	80	80	80	80	33.5	8.8	0.3	13,882	235,070	124,865	0	0
Port Washington Unit 4	Coal	80	0	0	28.7	5.8	0.6	13,329	201,561	102,806	0	0	0
Valley Unit 1	Coal	140	140	140	140	43.6	1.2	10.9	13,783	535,107	338,290	29,947	0
Valley Unit 2	Coal	140	140	140	140	49.9	1.0	4.5	13,974	612,852	390,889	26,492	0
Oak Creek Unit 5	Coal	261	262	262	262	47.0	1.3	5.3	10,003	1,077,974	601,604	79,160	0
Oak Creek Unit 6	Coal	264	264	265	265	58.8	8.1	2.7	10,130	1,364,502	773,966	57,750	0
Oak Creek Unit 7	Coal	298	298	298	298	70.0	1.6	7.3	10,138	1,828,210	1,019,316	406,957	0
Oak Creek Unit 8	Coal	312	314	314	41.1	1.8	18.2	10,160	1,128,980	624,811	352,471	0	0
Pleasant Prairie Unit 1	Coal	612	612	617	78.3	1.8	0.0	10,562	4,230,542	2,660,393	193,188	2,323	0
Pleasant Prairie Unit 2	Coal	612	617	617	68.2	1.8	0.2	10,595	3,668,038	2,314,702	32,714	2,403	0
Concord Unit 1	Gas	94	94	94	1.0	0.0	1.4	15,687	8,582	0	133,245	9	
Concord Unit 2	Gas	94	94	94	1.2	0.0	3.4	15,282	9,926	0	150,128	10	
Concord Unit 3	Gas	94	94	94	0.8	0.0	1.2	15,254	6,236	0	91,847	405	
Concord Unit 4	Gas	94	94	94	1.4	0.0	0.6	15,178	11,519	0	173,068	7	
Germantown Unit 1	Oil	63	63	63	0.3	0.0	2.3	14,713	1,804	0	0	0	4,563
Germantown Unit 2	Oil	63	63	63	0.3	0.0	0.0	14,591	1,512	0	0	0	3,792
Germantown Unit 3	Oil	63	63	63	0.3	0.0	0.4	14,705	1,643	0	0	0	4,153
Germantown Unit 4	Oil	63	63	63	0.1	1.9	16.6	17,050	818	0	0	0	2,398
Germantown Unit 5	Gas	93	93	93	4.2	0.6	0.4	13,175	34,072	0	444,199	46	
Paris Unit 1	Gas	100	100	100	2.0	0.1	1.2	13,142	16,919	0	178,335	7,259	
Paris Unit 2	Gas	100	100	100	1.8	1.7	0.9	14,512	15,717	0	197,312	4,951	
Paris Unit 3	Gas	100	100	100	2.7	2.2	1.6	12,247	23,393	0	283,650	0	
Paris Unit 4	Gas	100	100	100	2.4	1.1	6.9	13,338	20,845	0	240,665	6,010	
Point Beach Unit 1	Nuclear	510	510	90.2	0.2	0.08	10,281	3,975,789	0	0	0	0	
Point Beach Unit 2	Nuclear	507	512	89.7	1.0	0.09	10,162	4,004,295	0	0	0	0	

We Energies
Bi-Annual Maintenance Plan Update
PSC 113.0607(2) 6

This information is provided in support of We Energies' Electric Distribution System Inspection and Maintenance Programs plan document dated January 30, 2001, submitted in accordance with PSCW Section 113.0607 (1) and accepted by the PSCW in a letter dated March 15, 2001. This bi-annual document was developed and is submitted to fulfill the requirements specified in PSC Section 113.0607 (2) 6.

We Energies' inspection and maintenance programs are part of an asset management plan whose purpose is to:

- provide a safe working environment for company and contractor employees
- safeguard the public
- protect valuable corporate assets from damage or loss while extending their useful life
- deliver a reliable product at a price and quality that represents value to our customers

These programs work in concert with other initiatives including system improvement projects, rural rebuild projects, and reliability programs to deliver safe and reliable electric service to our customers.

The electric distribution system consists of approximately 28,000 miles of overhead and underground primary voltage conductors and 24,000 miles of secondary voltage conductors. The system includes nearly 380 substations, 700,000 poles, 70,000 protective devices, and 230,000 utilization transformers with their own protective devices.

Twenty-one individual inspection and maintenance programs were active during 2001 and 2002. These programs are generally equipment-based, although programs like the Overhead Line Clearance Program does address tree-trimming needs on a circuit by circuit basis. Inspection and condition based monitoring is typically used to identify equipment requiring corrective maintenance. Corrective measures are classified as:

- Urgent – requiring immediate attention
- Important – needing to be addressed as soon as arrangements can be made
- Attention Needed – able to be completed in conjunction with other maintenance work or as time allows
- Attention Not Required – continue to monitor for possible future corrective actions

Inspection and preventive maintenance schedules take into consideration past history and current performance. Programs are reviewed annually to determine if they are meeting expectations. New programs are added, unnecessary or completed programs closed, and programs that need to be adjusted are modified to ensure they continue to achieve the goals established.

The Single Interrupter Disconnect Switch Replacement Program, as an example, addressed replacements of a specific vintage disconnect switch provided by one manufacturer. That

vintage switch was known to have operating problems. The last of these switches was replaced and the program completed and closed in 2001.

The 26.4kV and 24.9kV Switch Fuse Unit Inspection and Maintenance Program was initiated in 2002 to identify units that require repair or replacement to ensure continued delivery of reliable service. Repair and replacement work will continue through 2003 and beyond.

2001 and 2002 program completions and corrective maintenance status information is included with this document and compiled under the following categories:

- Overhead Line Clearance (Forestry)
- Overhead Line Maintenance
- Underground and URD Line Maintenance
- Substation Maintenance Projects
- Substation Maintenance Programs

Inspections and identification of corrective actions for many programs occur throughout the year according to inspection schedules and work plans. Inspection activities that have been concluded are included in the attached listing as 'Completed' tasks. Urgent corrective actions, as well as those that can or need to be coordinated with other planned work, are scheduled for completion as soon after identification as possible. These completions along with completions of corrective actions identified in previous years are also included in the listing as 'Completed' tasks. The remaining corrective actions are grouped and issued for completion in the following calendar year. These corrective actions appear in the listing as 'Backlog'.

We Energies 2001 and 2002 Electric Distribution System Inspection and Maintenance Programs Activity

PSC 113.0607(2)6

Attachment B

<i>Program</i>	<i>Completed Tasks</i>	<i>Backlog Tasks</i>	<i>Comments</i>
Overhead Line Clearance (Forestry) Program			
Trim Forestry Circuits	511	1,38	Program plan updated for 2003 and beyond to be on average 4 year cycle by 12/31/2005
Trim Forestry Circuit Miles	4,717	1,863	Program plan updated for 2003 and beyond to be on average 4 year cycle by 12/31/2005
Street and Area Light Maintenance Program			
Relamp Street & Area Lights	46,677	0	Relamping is completed on a 4 year cycle
Overhead Line Maintenance Program			
Obtain Line Recloser Counter Readings	11,744	0	Readings obtained on all reclosers semi-annually. Readings may only be obtained once each year in future in accordance with PSC 113 requirements.
Repair/Replace Line Reclosers	35	0	One-time effort to repair counters or replace recloser completed in 2002
Obtain Substation Breaker/Recloser Counter Readings	10,118	66	Readings obtained on all substation breakers/reclosers semi-annually. Readings may only be obtained once each year in future.
Perform Distribution Automation Switch Preventive Maintenance	38	0	Preventive maintenance performed every three years (o, at a minimum, replace batteries)
Perform Distribution Automation Switch Corrective Maintenance	83	0	Corrective maintenance completed as a result of preventive maintenance performed or when communications problems are reported
Inspect Poles	51,427	0	
Treat Poles	20,392	0	0 Poles are treated in conjunction with inspection
Reinforce Poles	974	177	Backlog to be completed during 2003
Replace Poles or Transfer to New Poles Owned by Others	429	927	Backlog to be substantially completed during 2003. Some poles are owned by others.
Re-Sign Poles	85,319	0	0 Poles are re-signed in conjunction with pole inspection and forestry programs
Perform Overhead Line Maintenance Identified by Forestry	825	1,939	Program includes both overhead line maintenance identified by forestry crews when performing cycle trimming and by pole inspection crews
Replace Single Operator Disconnect Switches	150	0	One-time effort to replace switches with known operating problems. Program completed in 2001
Inspect Line Capacitor Banks	529	21	Program includes annual analysis of approx. 850 banks for which electronic metering data is available as well as all other banks
Repair/Replace Line Capacitor Banks	282	21	
Replace Aluminum Bell Insulators	722	0	
Replace CSP Transformers	288	0	

We Energies 2001 and 2002 Electric Distribution System Inspection and Maintenance Programs Activity

PSC 113.0607(2)6

Attachment B

Program	Completed Tasks	Backlog Tasks	Comments
Underground and URD Line Maintenance Program			
Inspect 26.4Kv/24.9Kv Switch Fuse Units	513	3	Program started in 2002. Inspections will be completed in 2003.
Replace 26.4Kv/24.9Kv Switch Fuse Units	4	23	Backlogged units are being reviewed by engineering to determine if they need to be replaced or if they can be removed. Plan is to address during 2003.
Repair 26.4Kv/24.9Kv Switch Fuse Units	22	232	Plan is to address most repairs during 2003.
Inspect Ground Mounted Equipment	68,491	2,757	Inspections are performed on a 5 year cycle
Repair Ground Mounted Equipment	783	809	Backlog to be addressed during 2003 results from 2002 inspections
Paint Ground Mounted Equipment	110	2,394	Painting contract to be awarded in 2003
Re-Sign Ground Mounted Equipment	12,211	0	
Inspect Manholes	1,299	0	Manholes being inspected in conjunction with work being performed in them
Repair Manholes/Equipment	500	66	
Inspect High Ampacity Direct Buried Services	128	325	Program implemented in fall of 2002. Inspections to be completed in 2003.
Replace High Ampacity Direct Buried Services	1	0	Necessary replacements to be prioritized over several years
Substation Maintenance Projects			
Replace Failed Substation Equipment	100	112	Projects identified as failures occur
Planned Replacement of Substation Equipment	145	243	Most backlog projects are tied to joint We Energies/SBC work schedule for telephone circuit protection upgrades or 'opportunity' projects, to be done in conjunction with other substation projects
Perform Substation Relay Preventive Maintenance	2,521	494	Work continuing on implementation of an RCM program for relay preventive maintenance work. Goal is to perform the right tasks in the right manner and at the right time to ensure we are providing a reliable system and protecting valuable assets.
Perform Substation Relay Corrective Maintenance	449	0	Corrective maintenance completed as a result of preventive maintenance performed or when problem reported
Perform Substation SCADA Corrective Maintenance	859	0	Corrective maintenance completed when problems occur
Perform Substation Equipment Preventive Maintenance	12,134	1,702	Work continuing on implementation of an RCM program to support substation preventive maintenance work. Goal is to perform the right tasks in the right manner and at the right time to ensure we are providing a reliable system and protecting valuable assets.
Perform Substation Equipment Corrective Maintenance	4,917	304	Backlog generally consists of minor items to be completed on an "opportunity" basis with other substation work

We Energies 2001 and 2002 Electric Distribution System Inspection and Maintenance Programs Activity

Attachment B

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<i>Program</i>	<i>Completed Tasks</i>	<i>Backlog Tasks</i>	<i>Comments</i>
Perform Substation Civil Corrective Maintenance	629	513	Backlog consists of non-safety related (i.e., painting, adding gravel) items.